

APPENDIX PDF

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DGAT1 activity synchronises with mitophagy to protect cells from metabolic rewiring by iron depletion

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Table of contents

Page 2 – Supplementary Figure Legends

Page 3 – Appendix Figure S1

Page 4 – Appendix Figure S2

Supplementary Figure Legends

Appendix Figure S1:

Analysis of LD biogenesis in response to different mitophagy stimuli.

S1a. Representative photomicrographs of ARPE19 cells treated for 24 h with the compound indicated on the image in the following amount; DFP (1mM), CCCP (20 μ M), Oligomycin (5 μ M), Antimycin A (10 μ M), Ivermectin (10 μ M). Cells were stained with BODIPYTM and fixed. Nuclei are counterstained with Hoescht33342. Scale bar = 5 μ m.

S1b. Associated quantitation for S4a.

Appendix Figure S2:

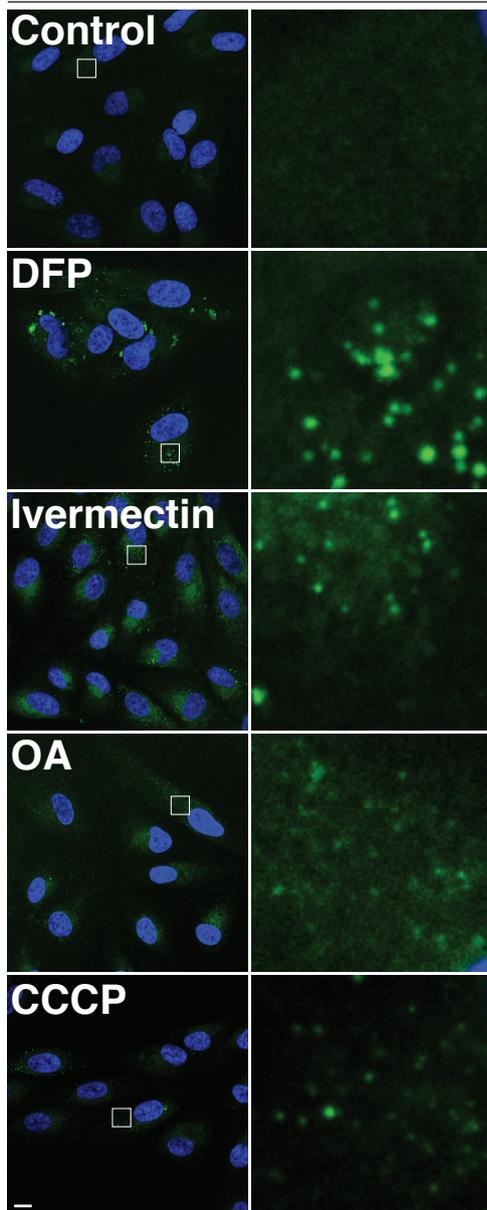
Aberrant lipid metabolism upon loss of LD biogenesis.

S2a. Comparative modelling of the lipidome between DFP vs. DFP+DGAT1i/2i at 24 h. OPLS-DA OPLS-DA was performed using MetaboAnalyst from LC-MS datasets described above.

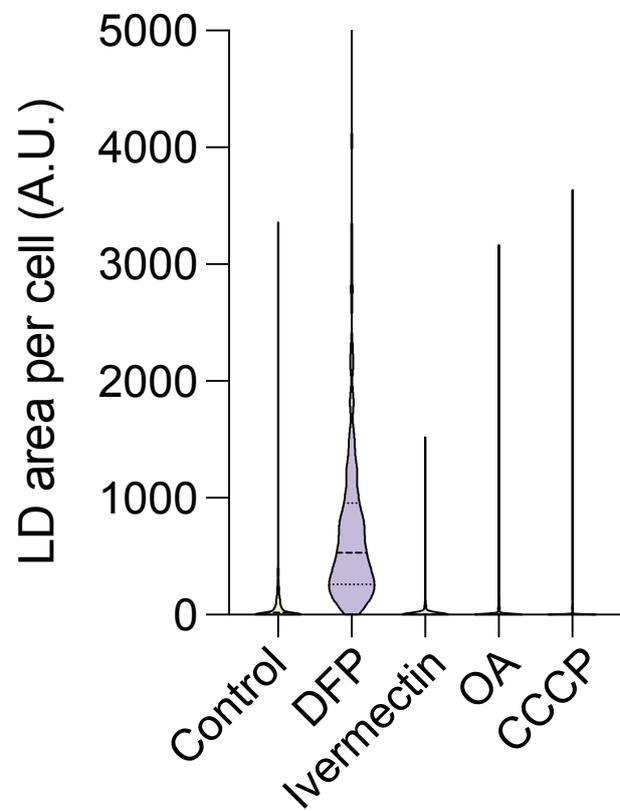
S2b. Heatmap showing enrichment and loss of lipid species upon loss of LD biogenesis. Each coloured cell on the map corresponds to a z-score value. Whilst DFP-induced TAGs are depleted upon DGAT1i/2i inhibition, a broad enrichment signature of several other lipid species is evident, including cytotoxic ceramides and glycerophospholipids. All samples from $n=3$ experiments are shown.

S2c. Average values of S7b shown for simplicity.

(a) Lipid Droplets

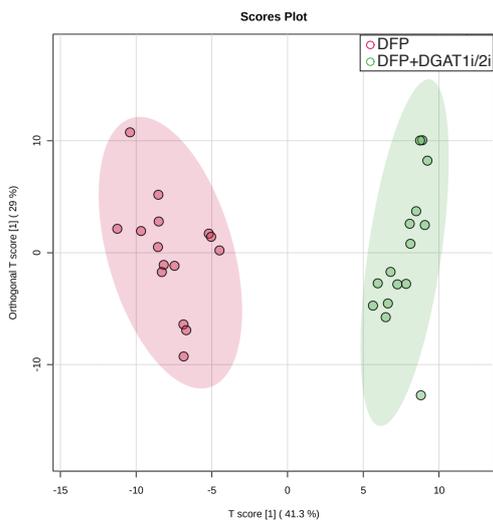


(b)

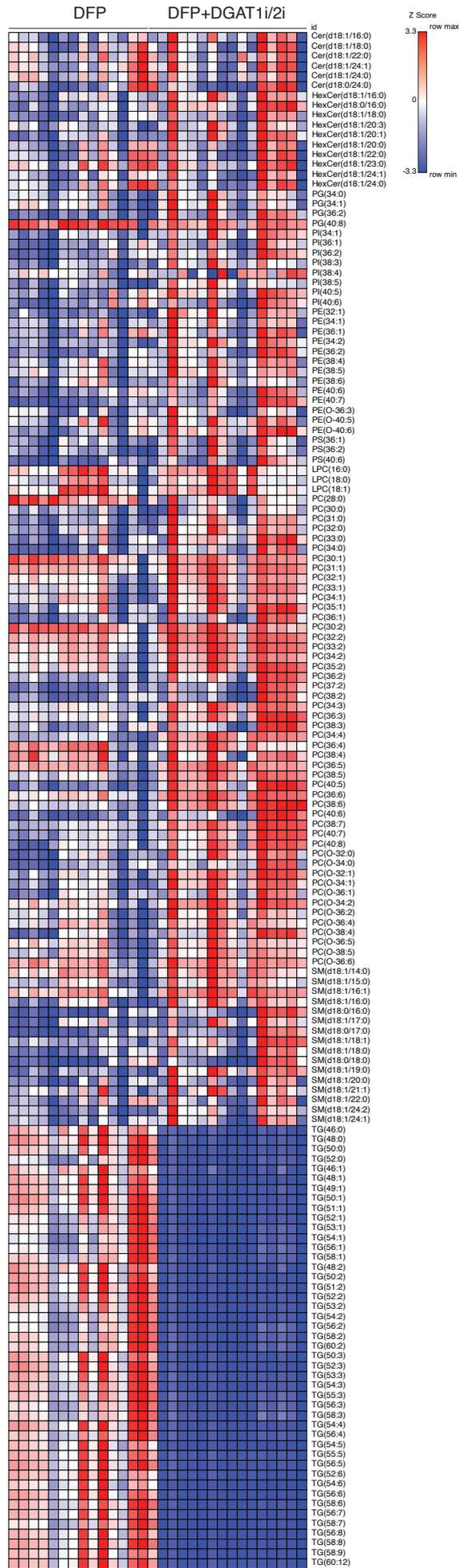


Appendix Figure S2

(a)



(b)



(c)

